

## ABSTRACT

MULTIELEMENT SOUND PROBE COMPRISING A COMPOSITE  
ELECTRICALLY CONDUCTING COATING AND METHOD FOR MAKING  
SAME

The invention relates to a multielement acoustic probe comprising an acoustic support and an electrical circuit with conducting tracks connected to elementary piezoelectric transducers.

In addition, the probe comprises a film of composite conducting material placed between the piezoelectric transducers and the conducting tracks.

Conventionally, the piezoelectric transducers are subcut in order to obtain elements which are acoustically uncoupled and electrically coupled.

The presence of the film of composite conducting material favours the dimensioning of the track with respect to the subelements and constitutes an intermediate element with respect to the differences in thermal expansion between the acoustic support and the piezoelectric transducers.

Application: medical and underwater imaging.

FIGURE 2